B6.FVB-Tg(Prnp-RTN3)2Yanr/J

Stock No: 009337 | Tg-RTN3 line 2

Congenic, Transgenic

REQUEST CRYORECOVERY

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Also Known As: Tg-RTN3 line 2

These Tg-RTN3 mice express myc-tagged, human RTN3 directed to neurons by the mouse prion protein promoter. Mice develop RTN3 immunoreactive dystrophic neurite aggregation without amyloid deposition or paired helical filament tangles. These mice may be useful in studying the role of RTN3 in neuritic dystrophy and Alzheimer's disease pathogenesis.

Donating Investigator

Riqiang Yan, Cleveland Clinic Foundation

READ MORE +

GENETIC OVERVIEW

Genetic Background Generation

Tg(Prnp-RTN3)2Yanr

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
Details

Detailed Description

Mice hemizygous for the hRTN3 transgene are viable and fertile, with C-terminally myc-tagged human reticulon 3 (RTN3) expression directed to neurons by the mouse prion protein (PrP or Prnp) promoter. Transgenic mice (Tg-RTN3) from founder line 2 have approximately 1- to 2-fold greater RTN3 than wildtype mice, with highest expression levels in cerebral cortex, slightly less in the hippocampus, and lowest in the cerebellum. Overexpression of RTN3 leads to the development of RTN3 immunoreactive dystrophic neurite aggregation (a distinguishing pathological feature of Alzheimer’s disease) with neither amyloid deposition nor paired helical filament tangles. The donating investigator reports that dystrophic neurite aggregation is apparent in the hippocampal CA1 region of Tg-RTN3 line 2 mice by ~12 months. This aggregation results in impaired spatial learning and memory, as well as impaired synaptic plasticity.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Prnp-RTN3)2Yanr

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred together, to wildtype (noncarrier) siblings, or to C57BL/6J inbred mice Stock No. 000664).

Additional Breeding and Husbandry Support

Citation
When using the Tg(RTN3) line 2 mouse strain in a publication, please cite the originating article(s) and include JAX stock #009337 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non Carrier for Tg(Prnp-RTN3)2Yanr</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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